

Appendix E-1-A

Air Resources Board

Quarry Entrance - Intersection of Unpaved/Paved Road



Winston H. Hickox
Secretary for
Environmental
Protection

Air Resources Board

Alan C. Lloyd, Ph.D.
Chairman

2020 L Street • P.O. Box 2815 • Sacramento, California 95812 • www.arb.ca.gov



Gray Davis
Governor

MEMORANDUM

TO: Stephanie Trenck, Chief
Program Assessment and Data Management Branch
Compliance Division

FROM: George Lew, Chief *George Lew*
Engineering and Laboratory Branch
Monitoring and Laboratory Division

DATE: June 25, 1999

SUBJECT: RESULTS OF WEBER CREEK QUARRY AIRBORNE ASBESTOS
MONITORING RESULTS THROUGH MAY 1999.

I have enclosed the results (Attachment I) of all sampling performed at Weber Creek Quarry (Quarry) through May 1999. Five sampling sites were chosen around the Quarry. The number of sampling sites was reduced to only Site 8 for all sampling performed on and after the May 26, 1999. Site 8 is at the entrance of the quarry. A map of the sampling locations is contained in Attachment II. Sampling is performed on a twelve day cycle. The calendar in Attachment III shows the days samples were taken. A 24-hour sampler and a meteorological station were set up at each site. RJ Lee Group, our contract laboratory, sends us a report for each sampling day's samples. These reports are contained in Attachment IV.

The results from the monitoring through May 1999 have been tabulated with the same format used by RJ Lee. RJ Lee reports the results in four decimal places which results. The number of significant figures varies from one to three.

Samplers were set up on approximately the five compass points. A site was chosen on the North, East, South and West of the Quarry. These sites were also used in the October 1998 monitoring program. The site numbering scheme used for the October 1998 monitoring program was also used in this maintenance program. Site one was the southern most sampler. Site two was the northern most sampler. Site six was the eastern most sampler. Site eight was at the entrance of the quarry and the western most sampler. An additional site (site 9) was chosen as a background location.

California Environmental Protection Agency

Printed on Recycled Paper

Stephanie Trenck
June 25, 1999
Page 2

Sampling occurred on a 12 day cycle, starting on January 14, 1999. If rain was falling at the time of deployment of the samplers, sampling did not occur on that day. Sampling started again on the next 12th day. Only February 12, 1999 sampling was canceled due to rain. Chain of Custody was kept on all samples. MLD staff sent the collected samples with the Chain of Custody forms to the contract lab (RJ Lee) by over night express mail (UPS).

I have also attached the asbestos analysis reports (Attachment IV) from the contract lab (RJ Lee). There is a report for each sampling day. RJ Lee supplies MLD with three tables and a computer generated count-sheet for each sample. They call the first table "Test Report." This table contains the data used to compile and produce the reports you have seen from MLD in the past. We titled RJ Lee's second table "Table II." The table has the asbestos concentrations for fibers ≥ 5 microns in length. The final table from RJ Lee contains the uncertainty data for each sample. The RJ Lee count-sheets are computer generated copies of the count-sheets produced during analysis.

If you have questions or comments or need further information, please contact me at 263-1630 or have your staff contact Michael Spears, Manager for the Evaluation Section or James McCormack of his staff at 263-2060.

Attachments (4)

cc: Bill Loscutoff

Attachment I

Measured Ambient Asbestos Concentrations
Monitoring Around Weber Creek Quarry

(January 14, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-500	S9-500	Site 9	01/14 - 01/15/99	0.0010	ND	ND
WCQ-501	S9-501	Site 9	01/14 - 01/15/99	0.0010	0.0019	ND
WCQ-502	S6-502	Site 6	01/14 - 01/15/99	0.0010	0.0010	ND
WCQ-503	S6-503	Site 6	01/14 - 01/15/99	0.0010	ND	ND
WCQ-504	S8-504	Site 8	01/14 - 01/15/99	0.0012	0.0363	0.0012
WCQ-505	S8-505	Site 8	01/14 - 01/15/99	0.0019	0.0620	0.0019

(January 26 , 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-506	S9-506	Site 9	03/15 - 03/16/99	0.0010	ND	ND
WCQ-507	S6-507	Site 6	03/15 - 03/16/99	0.0010	ND	ND
WCQ-508	S1-508	Site 1	03/15 - 03/16/99	0.0010	ND	ND
WCQ-509	S8-509	Site 8	03/15 - 03/16/99	0.0010	0.0242	0.0010
WCQ-510	S2-510	Site 2	03/15 - 03/16/99	0.0010	ND	ND

Notes:

MDL: Acronym for Minimum Detection Limit

ND: Acronym for non-detect

Concentration Format: same as reported by RJ Lee.

Attachment I Cont'd

Measured Ambient Asbestos Concentrations
Monitoring Around Weber Creek Quarry

(March 3, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-520	S9-520	Site 9	03/03 - 03/04/99	0.0010	ND	ND
WCQ-521	S6-521	Site 6	03/03 - 03/04/99	0.0017	ND	ND
WCQ-522	S1-522	Site 1	03/03 - 03/04/99	0.0010	ND	ND
WCQ-523	S8-523	Site 8	03/03 - 03/04/99	0.0010	0.0019	ND
WCQ-524	S2-524	Site 2	03/03 - 03/04/99	0.0010	ND	ND
WCQ-525	LI-525	field blank	03/04/99	0.0010	ND	ND
WCQ-526	NI-526	box blank	03/04/99	0.0010	ND	ND

(March 15, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-527	S9-527	Site 9	03/15 - 03/16/99	0.0015	ND	ND
WCQ-528	S6-528	Site 6	03/15 - 03/16/99	0.0010	ND	ND
WCQ-529	S1-529	Site 1	03/15 - 03/16/99	0.0010	ND	ND
WCQ-530	S8-530	Site 8	03/15 - 03/16/99	0.0010	0.0263	0.0029
WCQ-531	S2-531	Site 2	03/15 - 03/16/99	0.0010	0.0010	ND
WCQ-532	LI-532	field blank	03/15/99	0.0010	ND	ND
WCQ-533	NI-533	box blank	03/15/99	0.0010	ND	ND

Notes:

MDL: Acronym for Minimum Detection Limit

ND: Acronym for non-detect

Concentration Format: same as reported by RJ Lee.

Attachment I Cont'd

Measured Ambient Asbestos Concentrations
Monitoring Around Weber Creek Quarry

(March 27, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-534	S9-534	Site 9	03/27 - 03/28/99	0.0010	ND	ND
WCQ-535	S6-535	Site 6	03/27 - 03/28/99	0.0010	ND	ND
WCQ-536	S1-536	Site 1	03/27 - 03/28/99	0.0010	ND	ND
WCQ-537	S8-537	Site 8	03/27 - 03/28/99	0.0010	ND	ND
WCQ-538	S2-538	Site 2	03/27 - 03/28/99	0.0010	ND	ND
WCQ-539	LI-539	field blank	03/28/99	0.0010	ND	ND
WCQ-540	NI-540	box blank	03/28/99	0.0010	ND	ND

(April 8, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-541	S9-541	Site 9	04/08 - 04/09/99	0.0010	ND	ND
WCQ-542	S6-542	Site 6	04/08 - 04/09/99	0.0015	ND	ND
WCQ-543	S1-543	Site 1	04/08 - 04/09/99	0.0010	ND	ND
WCQ-544	S8-544	Site 8	04/08 - 04/09/99	0.0010	0.0078	0.0010
WCQ-545	S2-545	Site 2	04/08 - 04/09/99	0.0058	ND	ND
WCQ-546	LI-546	field blank	04/09/99	0.0010	ND	ND
WCQ-547	NI-547	box blank	04/09/99	0.0010	ND	ND

Notes:

MDL: Acronym for Minimum Detection Limit

ND: Acronym for non-detect

Concentration Format: same as reported by RJ Lee.

Attachment I Cont'd

Measured Ambient Asbestos Concentrations
Monitoring Around Weber Creek Quarry

(April 20, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-548	S9-548	Site 9	04/20 - 04/21/99	0.0010	0.0019	0.0010
WCQ-549	S6-549	Site 6	04/20 - 04/21/99	0.0014	0.0014	ND
WCQ-550	S1-550	Site 1	04/20 - 04/21/99	0.0075	ND	ND
WCQ-551	S8-551	Site 8	04/20 - 04/21/99	0.0010	0.0155	0.0010
WCQ-552	S2-552	Site 2	04/20 - 04/21/99	0.0010	0.0029	ND
WCQ-553	LI-553	field blank	04/21/99	0.0010	ND	ND
WCQ-554	NI-554	box blank	04/21/99	0.0010	ND	ND

(May 2, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-555	S9-555	Site 9	05/02 - 05/03/99	0.0010	ND	ND
WCQ-556	S6-556	Site 6	05/02 - 05/03/99	0.0010	0.0010	ND
WCQ-557	S1-557	Site 1	05/02 - 05/03/99	0.0010	0.0019	ND
WCQ-558	S8-558	Site 8	05/02 - 05/03/99	0.0010	0.0134	ND
WCQ-559	S2-559	Site 2	05/02 - 05/03/99	0.0010	0.0010	ND
WCQ-560	LI-560	field blank	05/03/99	0.0010	ND	ND
WCQ-561	NI-561	box blank	05/03/99	0.0010	ND	ND

Notes:

MDL: Acronym for Minimum Detection Limit

ND: Acronym for non-detect

Concentration Format: same as reported by RJ Lee.

Attachment I Cont'd

Measured Ambient Asbestos Concentrations
Monitoring Around Weber Creek Quarry

(May 14, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-562	S9-562	Site 9	05/14 - 05/15/99	0.0010	ND	ND
WCQ-563	S6-563	Site 6	05/14 - 05/15/99	0.0010	ND	ND
WCQ-564	S1-564	Site 1	05/14 - 05/15/99	0.0010	0.0019	ND
WCQ-565	S8-565	Site 8	05/14 - 05/15/99	0.0010	0.0126	ND
WCQ-566	S2-566	Site 2	05/14 - 05/15/99	0.0010	0.0067	ND
WCQ-567	LI-567	field blank	05/15/99	0.0010	ND	ND
WCQ-568	NI-568	box blank	05/15/99	0.0010	ND	ND

(May 26, 1999)

Log Number	Sample Id	Site Number	Sampling Dates	Concentration (fibers per CC)		
				MDL	Measured	
					all fibers	> 5um
WCQ-569	S8-569	Site 8	05/26 - 05/27/99	0.0014	0.0252	0.0010
WCQ-570	LI-570	field blank	05/27/99	0.0010	ND	ND
WCQ-571	NI-571	box blank	05/27/99	0.0010	ND	ND

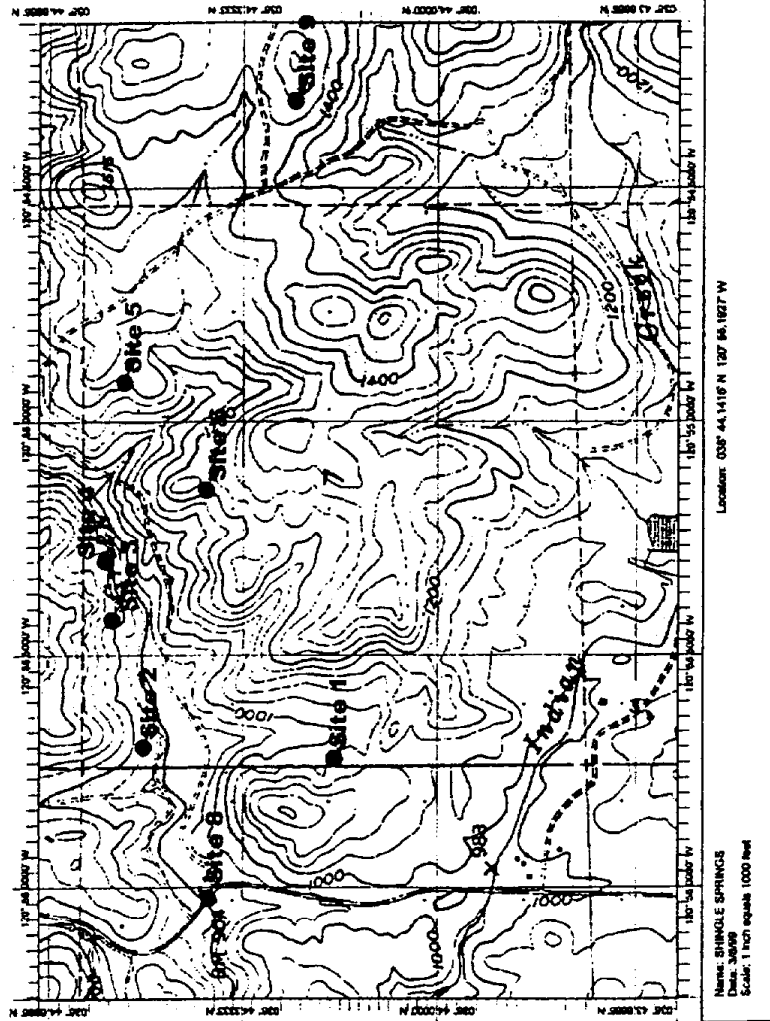
Notes:

MDL: Acronym for Minimum Detection Limit

ND: Acronym for non-detect

Concentration Format: same as reported by RJ Lee.

Attachment II Map of Sampling Locations



Attachment III
MAINTENANCE MONITORING AT WEBER CREEK QUARRY
SCHEDULE OF SAMPLING DATES THROUGH JUNE 30, 1999

OCTOBER 1998						
SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
				S	S	S
4	5	6	7	8	9	10
S	S	S	S	S	S	S
11	12	13	14	15	16	17
S	S	S				S
18	19	20	21	22	23	24
S						
25	26	27	28	29	30	31

NOVEMBER 1998						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER 1998						
SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JANUARY 1999						
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
				M		
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30
		M				

FEBRUARY 1999						
SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
	R					
14	15	16	17	18	19	20
					M	
21	22	23	24	25	26	27
28						

MARCH 1999						
SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
			M			
7	8	9	10	11	12	13
14	15	16	17	18	19	20
	M					
21	22	23	24	25	26	27
						M
28	29	30	31			

APRIL 1999						
SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
				M		
11	12	13	14	15	16	17
18	19	20	21	22	23	24
		M				
25	26	27	28	29	30	

MAY 1999						
SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
M						
9	10	11	12	13	14	15
				M		
16	17	18	19	20	21	22
23/30	24/31	25	26	27	28	29
		M				

JUNE 1999						
SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
	(M)					
11	12	13	14	15	16	17
18	19	20	21	22	23	24
	(M)					
27	28	29	30			

- S identifies days sampling occurred for full blown monitoring program..
M identifies days sampling occurred for maintenance monitoring program.
R identifies days sampling did not occur for maintenance monitoring program due to rain.
(M) identifies future days sampling is scheduled to occur for maintenance monitoring program.

Attachment IV
RJ Lee Group Reports